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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/575,182	05/23/2000	Kia Silverbrook	PP01US	9168

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SILVERBROOK RESEARCH PTY LTD
393 DARLING STREET
BALMAIN, 2041
AUSTRALIA

EXAMINER

RAHIMI, IRAJ A

ART UNIT	PAPER NUMBER
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2622

DATE MAILED: 08/28/2003

4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/575,182

Applicant(s)

SILVERBROOK ET AL.

Examiner

(Iraj) Alan Rahimi

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 May 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 May 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kokubo (US patent 5,953,497) et al. in view of Bobry (US patent 6,229,565).

Regarding claim 1, Kokubo et al. discloses a printer module for a compact printer system comprising:

an elongate body (Fig 1);

a stationary printhead 45 housed within said body 1,

an ink reservoir (ink tank 7) within said body and communicating with said printhead;

means within said body for storing an image to be printed by said printhead (RAM 16);

and

means for transferring said image to said printhead (column 5, lines 35-50).

However, Kokubo does not disclose means for moving a printable media past said stationary printhead; and said printhead printing said image on substantially the full width of said printable to media in a single pass.

Bobry discloses means for moving a printable media past said stationary printhead (column 4, lines 65-67 and column 5, lines 1-6); and said printhead printing said image on substantially the full width of said printable to media in a single pass (column 5, lines 25-43).

Art Unit: 2622

Kokubo and Bobry are analogous art because they are from the same field of endeavor that is compact printers. Therefore, it would have been obvious to a person skilled in the art, at the time of invention to combine the invention of Bobry with Kokubo to enable consistency in the output image by controlling the feed speed and offer varying sizes of printed image.

Regarding claim 2, Kokubo discloses the printer module of claim 1 further comprising a controller, said controller controlling operation of said printer module (control portion 14).

Regarding claim 3, Kokubo discloses the printer module of claim 2 wherein said means for storing said image is flash memory associated with said controller (RAM 16).

Regarding claim 4, Kokubo discloses the printer module of claim 2 wherein said controller includes said means for transferring said image to said printhead (column 6, lines 43-51).

Regarding claim 5, Kokubo discloses the printer module of claim 1 further comprising a sensor means detecting said printing media and activating said means for moving said printing media in response to said detection (Fig. 8B, steps 236-244).

Regarding claim 6, Kokubo discloses the printer module of claim 1 further comprising a power source 150 within said housing.

Art Unit: 2622

Regarding claim 8, Kokubo discloses the printer module of claim 1 wherein the elongate body is substantially cylindrical (column 4, lines 23-25 and Fig. 1).

Regarding claim 9, Kokubo discloses the printer module of claim 1 wherein the printhead is a monolithic drop-on demand inkjet printer 45.

Regarding claim 12, Bobry discloses the printer module of claim 2 wherein said controller incorporates image processing and quality assurance integrated circuits (column 7, lines 27-31).

3. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kokubo (US patent 5,953,497) et al. in view of Bobry (US patent 6,229,565) and further in view of Ross (US patent 4,372, 695).

Regarding claim 7, Kokubo and Bobry do not disclose the printer module of claim 1 further comprising at least one connector at an end of said body for connecting one or more further modules to said printer module and a bus providing power and data between said printer module and said one or more further modules. Ross discloses a connector 24 at the end of printer that carries the power and signals to electrodes. Kokubo, Bobry and Ross are analogous art because they are from the same field of endeavor that is portable/Handheld printers. Therefore, it would have been obvious to a person skilled in the art, at the time of invention to use the connector 24 at the end of printer apparatus to enable receiving and processing of the image data to take place outside of the printer and to enable reducing the size of the printer.

Art Unit: 2622

4. Claims 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kokubo (US patent 5,953,497) et al. in view of Bobry (US patent 6,229,565) and further in view of Kasai et al (US patent 5, 028,934).

Regarding claim 10, Kokubo and Bobry do not disclose the printer module of claim 1 wherein the means for moving printable media comprises a motive means driving one or more powered rollers adjacent one or more neutral rollers. Kasai et al. discloses drive roller 18 and guide roller 17A for feeding the paper. Kokubo, Bobry and Kasai et al. are analogous art because they are from the same field of endeavor that is portable/Handheld printers. Therefore, it would have been obvious to a person skilled in the art, at the time of invention to use the powered rollers of Kasai to reduce burden on the user for supplying the paper.

Regarding claim 11, Kasai discloses the printer module of claim 10 wherein the motive means is an electric motor and gearbox (column 3, lines 49-54).

Other References Cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Petteruti et al. (US patent 5,503,483) discloses a portable sign printer.

Bobry (US patent 5,593,236) discloses a handheld sweep printer.

Tuli (US patent 6,285,469) discloses a combination facsimile and printer design.

Art Unit: 2622

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Iraj) Alan Rahimi whose telephone number is 703-306-3473.

The examiner can normally be reached on Mon.-Fri. 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles can be reached on 703-305-4712. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3800.



Alan Rahimi

August 20, 2003



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